

Abstract

Title: Clinical evaluation of metal-ceramic crowns and fixed partial denture made by dental students at the dental faculty of Ardabil university of medical sciences in 2016-2018

Introduction: The complications of fixed partial dentures and single crowns have a great importance to be evaluated. The objectives of this study were to determine the prevalence of complications associated with crowns and bridges and the effect of service duration on the prevalence of complications among a Population Presenting for Treatment to a Dental School in Ardebil. A total of 40 patients were selected. Qualities of the present fixed partial dentures were clinically and radiographically assessed. Clinical examination was performed. The results of this study showed that the percentage of the failures were Periodontal disease (53.8%), Open contact (25.6%), porcelain fracture (20.5%), open margins (10.3%), Occlusal problem (7.7%), Poor esthetics (7.7%), prostheses loose (5.1%) and endodontic complications (0%). The duration of service was found to influence most of the assessed complications especially periodontal disease and open contact. With limitation of this study, the periodontal disease and gingival bleeding are the most frequent complications responsible for failure of fixed partial denture and single crowns that recommend an effective method to control dental diseases and to improve dental awareness.

Method and Materials: A total of 40 patients (age range of 20-60 years, 15 of the participants were females and 25 males) were selected randomly from the dental clinic at Ardebil Medical College, Dentistry Program. A sample questionnaire will be prepared in order to collect the relevant data. All prostheses will be performed by several general dental practitioners with a minimum of one year service duration. Patients will be informed and written consents will be obtained. Age, gender and the time of prostheses placement will be recorded. Complete clinical and radiographic examinations will be conducted. Statistical analysis was done using a Statistical Package for Social Science (SPSS, version 22). Descriptive statistics, including means and standard deviations were calculated for continuous variables, frequency and percentage for categorical variables, were calculated

Results: With limitation of this study, the periodontal disease and open contact are the most frequent complications responsible for failure of fixed partial denture and single crowns.

Keywords: Clinical Evaluation, Dental Students, Fixed Partial Denture